Laney

GC SERIES
ELECTRO ACOUSTIC
AMPLIFICATION

USER MANUAL

JULY 1994

MODELS

GC50A
GC80A

Laney

INTRODUCTION

Congratulations on your decision to purchase a Laney amplifier.

Laney products are designed with ease of operation as a primary objective, however to ensure you derive the best from your new amplifier, it is important you take some time to read this user manual and to firstly familiarise yourself with the control functions and facilities available.

BEFORE SWITCHING ON

After unpacking your amplifier check that it is factory fitted with a three pin 'grounded' (or earthed) plug. Before plugging into the power supply ensure you are connecting to a grounded (earthed) outlet.

If you should wish to change the factory fitted plug yourself, ensure that the wiring convention applicable to the country where the amplifier is to be used is strictly conformed to. As an example in the United Kingdom the cable colour code for connections are as follows.

EARTH OR GROUND - GREEN/YELLOW
NEUTRAL - BLUE
LIVE - BROWN

GENERAL INFORMATION

Amplifiers should never be exposed to moisture or wetness under any circumstances since this would present a possible shock or fire hazard, and may cause possible damage to your new and valuable acquisition

In the unlikely event that a fuse should blow it is imperative that you or your engineer, use a correctly rated replacement.

USING THIS MANUAL

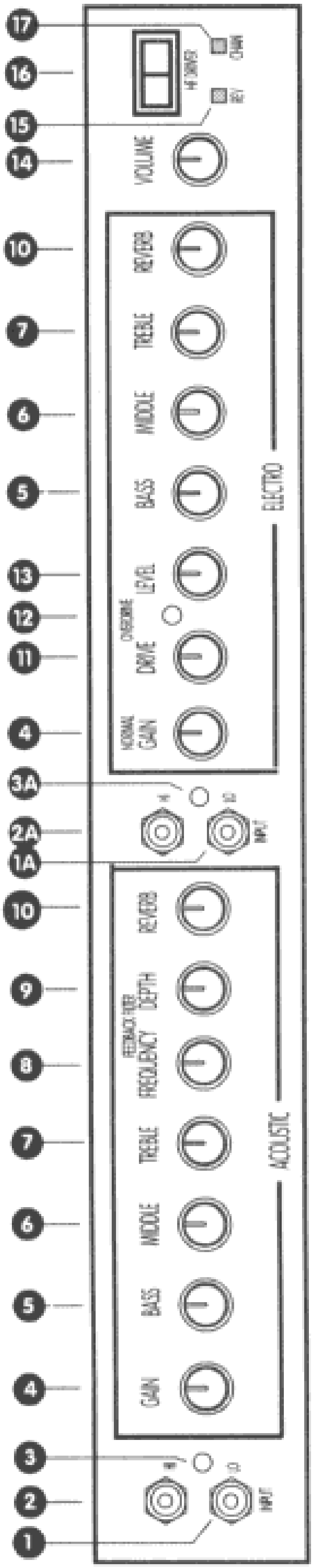
This manual has been written for easy access of information. The front and rear panels of each unit are graphically illustrated, with each control or facility numbered. For a description of the function of

The "Electro Acoustic" Amplifier

Thank you for purchasing this Laney Electro Acoustic amplifier. You have purchased yourself a **truly unique** and innovative amplifier. Typically, amps that are developed with the 'acoustic' player in mind tend to sound septic and sterile when used with an electric guitar. They just don't cut it in an environment where smooth, solid distortion is desired. Conversely, amps that are developed with the 'electric' guitarist in mind, tend not to perform well when used with electrified acoustic guitars. Consequently, if it was desired to play both amplified acoustic and electric guitars during a performance, two separate amps were required in order to satisfactorily do the gig. Yes, two amp were required just in order to play a couple of ballads per set, and more and more bands were doing this all of the time.

It was for this reason that the Laney series of Electro Acoustic combo amplifiers were developed, to allow the use of just one amp for an entire performance. These amps start out their life as electric combo amps and then are fitted with a clean acoustic channel complete with specially tuned acoustic Eqs and Dual inputs. Each preamp has a 'Lo' input for acoustic guitars with active electronics or Eqs and a 'Hi' input for acoustic electric guitars with passive high impedance pickups, with no electronics. Among the amp's other features are a switchable High Frequency Driver and a switch that allows the electric channel to be permanently engaged allowing both channels to be used simultaneously. This feature is extremely useful to the Acoustic only player who is using the amp as a stand alone for both guitar and microphone and desires independent control of each. In order to fully realise the potential of this remarkable amp, we recommend that you purchase the proper Laney foot switches for maximum performance.

Model GC50A control panel features.



1 Hi Input — This high gain, high impedance input, should be used with guitars that have a passive pickup only and have no 'on board' active electronics, including pre amps and or active EQ's.

2 Lo Input — This low gain, low inpedance input, should be used with guitars with active pickups and or active electronics.

3 Channel Indicator — Illuminates when the 'Acoustic' channel is in use.

4 Gain — Controls the input level of the pre amplifier.

5 Bass — Controls the low frequency response in the pre amplifier,

6 Middle — Controls the mid frequency EQ in the pre amplifier.

7 Treble — Controls the high frequency EQ in the pre amplifier.

Feedback Filter

8 Frequency — This control is a notch filter that sweeps between 200 Hz and 1.5 K. Most feedback from an acoustic guitar occurs in the mid frequency. This control allows the user to choose the frequency that is causing your guitar to feedback and in association with the adjacent 'Depth' control, filter it out.

9 Depth — This control sweeps between 12db cut and zero db. Used in association with the 'Frequency' control, The 'depth' control allows the frequency chosen to be cut and the problem frequency to be removed.

10 Reverb — Controls the level of reverb on the channel.

1A Hi Input — This input provides maximum gain from the instrument to the pre amplifier. It is extremely useful for guitars with single coiled or low gain humbucker type pickups. Use of high gain pickups in this input may drive the preamp too severely resulting in a 'mushy' output.

2A Lo Input — This input is attenuated down approximately 6db from the 'high'. Input. It is useful in obtaining output that is 'tight' not 'mushy' from high gain humbucker type pickups.

3A Channel Indicator — Illuminates when the 'Electro' channel is in use.

Overdrive

11 Drive — Allows the input level of the pre amplifier to be increased. When used in association with the 'level' control it causesl pre amplifier saturation and smooth controlled distortion.

12 13 Level — The drive indicator illuminates when the overdrive is engaged. The 'level' control when 'pulled on' is then used to set the output level of the pre amplifier. When used with the 'drive' control the overall volume of the overdrive channel may be adjusted.

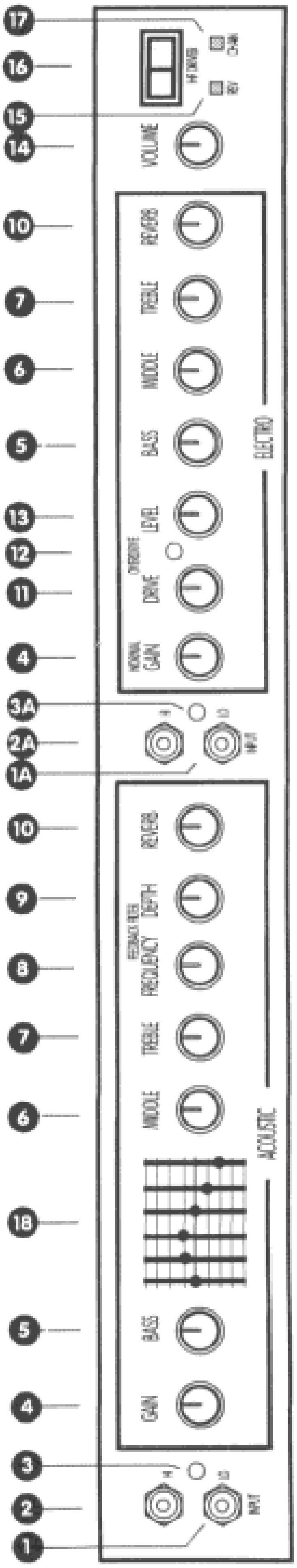
14 Volume — Controls the overall output level of the amplifier

15 Reverb — On board switch for reverb on/off

16 HF Driver — On off switch for HF driver.

17 Channel — On board switch for channel changes.

Model GC80A control panel features.



1	**Hi Input**	This high gain, high impedance input, should be used with guitars that have a passive pickup only and have no 'on board' active electronics, including pre amps and or active EQ's.
2	**Lo Input**	This low gain, low inpedance input, should be used with guitars with active pickups and or active electronics.
3	**Channel Indicator**	Illuminates when the 'Acoustic' channel is in use.
4	**Gain**	Controls the input level of the pre amplifier.
5	**Bass**	Controls the low frequency response in the pre amplifier,
6	**Middle**	Controls the mid frequency EQ in the pre amplifier.
7	**Treble**	Controls the high frequency EQ in the pre amplifier.

Feedback Filter

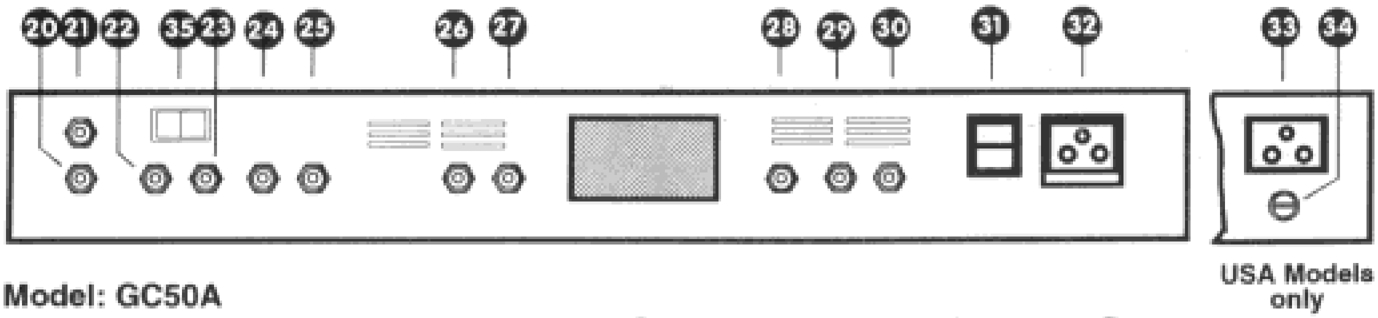
8	**Frequency**	This control is a notch filter that sweeps between 200 Hz and 1.5 K. Most feedback from an acoustic guitar occurs in the mid frequency. This control allows the user to choose the frequency that is causing your guitar to feedback and in association with the adjacent 'Depth' control, filter it out.
9	**Depth**	This control sweeps between 12db cut and zero db. Used in association with the 'Frequency' control, The 'depth' control allows the frequency chosen to be cut and the problem frequency to be removed.
10	**Reverb**	Controls the level of reverb on the channel.
1A	**Hi Input**	This input provides maximum gain from the instrument to the pre amplifier. It is extremely useful for guitars with single coiled or low gain humbucker type pickups. Use of high gain pickups in this input may drive the preamp too severely resulting in a 'mushy' output.
2A	**Lo Input**	This input is attenuated down approximately 6db from the 'high' Input. It is useful in obtaining output that is 'tight' not 'mushy' from high gain humbucker type pickups.
3A	**Channel Indicator**	Illuminates when the 'Electro' channel is in use.

Overdrive

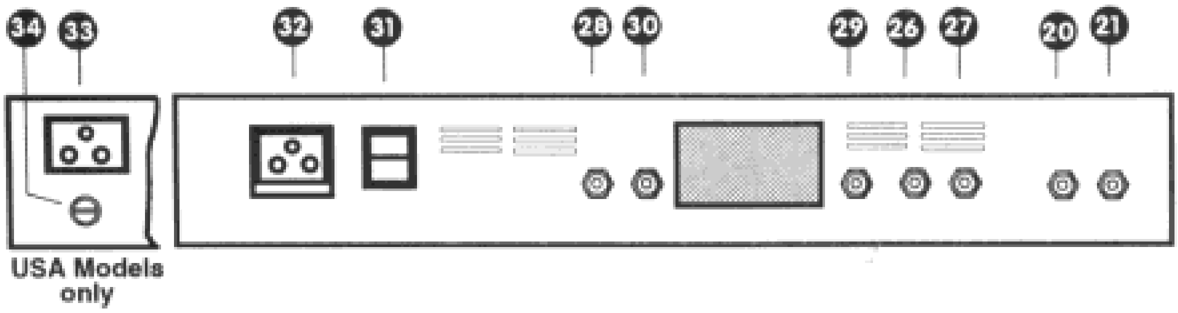
11	**Drive**	Allows the input level of the pre amplifier to be increased. When used in association with the 'level' control it causesl pre amplifier saturation and smooth controlled distortion.
12 **13**	**Level**	The drive indicator illuminates when the overdrive is engaged. The 'level' control when 'pulled on' is then used to set the output level of the pre amplifier. When used with the 'drive' control the overall volume of the overdrive channel may be adjusted.
14	**Volume**	Controls the overall output level of the amplifier
15	**Reverb**	On board switch for reverb on/off
16	**HF Driver**	On off switch for HF driver.
17	**Channel**	On board switch for channel changes.
18	**Graphic**	This 6 band slider EQ circuit allows frequencies between 200Hz and 3.5kHz to be independantly cut or boosted.

Rear Panel Features

Model: GC80A



Model: GC50A



Explanation of Features

20 Remote (Drive/Reverb)
Remote jack socket for attaching stereo footswitch (FS2) for reverb and overdrive switching.

21 Remote (Channel)
Remote jack socket for attaching 'mono' footswitch (FS1) for channel switching.

Effects loop (Electro Channel)

22 Return
Jack input for connection from an external effects unit. When used in association with the 'send' jack socket, an effects loop with the correct sensitivity can be set up to insert any signal processors into the pre amp section of the amplifier.

23 Send
Jack send input for connection to an external effects unit.

Effects loop (Acoustic Channel)

24 Return
Similar to Electro Channel.

25 Send
Similar to Electro Channel.

Effects loop (Master)

26 Return
Similar to Electro Channel but is 'global' in function.

27 Send
Similar to Electro Channel but is global in function. This is a 'low gain' output and is also suitable for use as a 'Line out'.

28 Speaker Output
A 1/4" output jack allows the user to connect an extension speaker cabinet. (minimum 4 ohms)

29 Direct Inject
Direct 'inject/line' socket provides a low impedance output signal to allow the user to connect the amplifier to a mixing desk or power amplifier for further sound reinforcement. The pre amp and tone controls will remain effective since only the output section of the amplifier will be bypassed.

30 Headphones
Jack socket for connection of headphones to enable the user to listen to the amplifier with the main speakers disconnected. Speakers will be disconnected automatically when phones are connected to model GC50A but must be physically disconnected on model GC80A.

31 Power
Mains power 'on/off' switch.

32 Power connector
Mains power combination input socket with integral mains fuse carrier.

33 Power (USA only)
Mains power input socket.

34 Mains Fuse (USA only)
Mains power fuse.

35 Channel Switch Selector
Your channel switching preference may be pre selected. With the switch set to 'dual' the 'electro' channel is permanently on and the 'acoustic' channel can be switched on and off with the remote footswitch connected to (21). With the 'single' switch position selected either the 'electro' or 'acoustic' channel may be selected by the footswitch.